

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method of encrypting a digital television signal, comprising:
encrypting an audio portion of the television signal according to a first encryption method to produce a first encrypted audio portion and encrypting a duplicate of the audio portion according to a second encryption method to produce a second encrypted audio portion; and
combining an unencrypted video portion of the television signal with the first and second encrypted audio portions.
2. (Currently Amended) The method according to claim 1, wherein ~~the television signal is a digital television signal, and wherein the encrypting comprises encrypting packets identified as audio packets.~~
3. (Original) The method according to claim 2, wherein the digital television signal complies with an MPEG standard, and wherein the audio packets are identified for encryption by a packet identifier (PID).
4. (Previously Presented) The method according to claim 2, wherein the digital television signal complies with a digital satellite service (DSS) transport standard, and wherein the audio packets are identified for encryption by a service channel identifier (SCID).
5. (Original) The method according to claim 2, wherein audio packets encrypted according to the first encryption method are assigned a first packet identifier and audio packets encrypted according to the second encryption method are assigned a second packet identifier.
6. (Previously Presented) The method according to claim 5, wherein the first packet identifier and the second packet identifier are referenced as primary elementary packet identifiers (PIDs) in a program map table (PMT).

7. (Previously Presented) The method according to claim 5, wherein the first packet identifier is referenced as a primary elementary packet identifier (PID) in a program map table (PMT) and the second packet identifier is referenced as a secondary elementary packet identifier (PID) in the program map table (PMT).

8. (Original) The method according to claim 5, wherein the first encrypted audio portion and the second encrypted audio portion are distributed over one of a terrestrial broadcast system, a satellite system and a cable system.

9. (Original) The method according to claim 8, further comprising distributing system information to provide locating information used to locate the first and second encrypted audio portions.

10. (Previously Presented) The method according to claim 9, further comprising combining encrypted system information with the video portion and first and second encrypted audio portions.

11. (Original) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a television signal according to claim 1.

12. (Currently Amended) An ~~electronic transmission medium carrying an encrypted television signal encrypted by the method according to claim 1~~ and carried by an electronic transmission medium.

13. (Currently Amended) A method of multiple encrypting a digital television signal, comprising:

encrypting an audio portion of the television signal according to a first encryption method to produce a first encrypted audio portion;

encrypting a duplicate of the audio portion of the television signal according to a second encryption method to produce a second encrypted audio portion; and

combining the first encrypted audio portion and the second encrypted audio portion with an unencrypted video portion of the television signal to produce a multiple partially encrypted television signal.

14. (Currently Amended) The method according to claim 13, wherein ~~the television signal is a digital television signal, and wherein the multiple encrypting comprises encrypting~~ packets identified as audio packets.

15. (Previously Presented) The method according to claim 14, wherein the digital television signal complies with an MPEG standard, and wherein the audio packets are identified for multiple encryption by a packet identifier (PID).

16. (Previously Presented) The method according to claim 13, further comprising distributing the multiple partially encrypted television signal over one of a cable system, a terrestrial broadcast system and a satellite system.

17. (Original) The method according to claim 16, further comprising transmitting system information to provide locating information used to locate the first encrypted audio portion.

18. (Original) The method according to claim 17, further comprising encrypting the system information.

19. (Original) The method according to claim 13, further comprising partially encrypting the unencrypted video portion of the television signal.

20. (Original) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a television signal according to claim 13.

21. (Currently Amended) ~~An electronic transmission medium carrying a multiple~~ A multiple encrypted television signal encrypted by the method according to claim 13 and carried by an electronic transmission medium.

22. (Currently Amended) An encrypted digital television signal stored or conveyed on a machine readable medium, comprising:

a first encrypted audio portion, comprising a clear audio portion encrypted under a first encryption method;

a second encrypted audio portion, comprising a duplicate of the clear audio portion encrypted under a second encryption method; and

an unencrypted video portion.

23. (Currently Amended) The encrypted television signal according to claim 22, wherein the ~~television signal is a digital television signal, and wherein the~~ first and second encrypted audio portions comprise encrypted packets identified as audio packets.

24. (Original) The encrypted television signal according to claim 23, wherein the digital television signal complies with an MPEG standard, and wherein the first encrypted audio portion is comprised of packets identified by a first packet identifier (PID), and wherein the second encrypted audio portion is comprised of packets identified by a second packet identifier (PID).

25. (Currently Amended) A multiple encrypted television signal stored or conveyed on a machine readable medium, comprising:

a first encrypted audio portion, comprising a clear audio portion encrypted under a first encryption method;

a second encrypted audio portion, comprising a duplicate of the clear audio portion encrypted under a second encryption method; and
an unencrypted video portion.

26. (Original) The encrypted television signal according to claim 25, wherein the television signal is a digital television signal, and wherein the first encrypted audio portion comprises encrypted packets identified as audio packets.

27. (Original) The encrypted television signal according to claim 26, wherein the digital television signal complies with an MPEG standard, and wherein the first encrypted audio portion is comprised of packets identified by a first packet identifier (PID).

28. (Currently Amended) A digital television receiver device ~~set-top box~~, comprising:
a receiver receiving a dual partially encrypted television signal, the dual partially encrypted television signal comprising audio packets encrypted under a first encryption algorithm and duplicate audio packets encrypted under a second encryption algorithm;
a decrypter that receives encrypted audio packets encrypted under the first encryption algorithm from the receiver and decrypts the encrypted audio packets, ~~the encrypted audio packets being encrypted under a first encryption algorithm~~; and
a decoder that receives and decodes the decrypted audio packets, and that receives and decodes unencrypted video packets to produce a television signal suitable for play on a television receiver.

29. (Currently Amended) The digital television receiver device ~~apparatus~~ according to claim 26, wherein the receiver further receives and discards audio packets encrypted under a second encryption algorithm.

30. (Currently Amended) A cable system headend, comprising:
a first encryption system that encrypts audio packets using a first encryption algorithm;

a second encryption system that encrypts duplicate audio packets using a second encryption algorithm; and

means for distributing a stream of packets over a cable television system, the stream of packets comprising video packets, audio packets encrypted under the first encryption algorithm, and audio packets encrypted under the second encryption algorithm and system information packets.

31. (Currently Amended) The cable system headend apparatus according to claim 30, wherein the video packets are unencrypted.

32. (Currently Amended) The cable system headend apparatus according to claim 30, wherein the system information packets are unencrypted.

33. (Currently Amended) The cable system headend apparatus according to claim 30, wherein the video packets are partially encrypted.

34. (Currently Amended) The cable system headend apparatus according to claim 30, wherein the system information packets are encrypted.

35. (Currently Amended) A method of decoding a multiple partially encrypted television signal, comprising:

receiving a television signal having a multiple encrypted audio portion and a clear video portion, wherein the multiple encrypted audio portion comprises a first encrypted audio portion encrypted under a first encryption method and a second encrypted duplicate audio portion encrypted under a second encryption method;

decrypting the first encrypted audio portion to produce a decrypted audio portion;

decoding the decrypted audio portion and the clear video portion to produce a decoded television signal.

36. (Original) The method according to claim 35, wherein the decoded signal is suitable for play on a television set.

37. (Previously Presented) The method according to claim 35, wherein the first encrypted audio portion is identified by a first packet identifier (PID) associated with a first decryption algorithm used for decrypting the first encrypted audio portion and the second encrypted audio portion is identified by a second packet identifier (PID) associated with a second decryption algorithm used for decrypting the second encrypted audio portion.

38. (Cancelled)

39. (Cancelled)

40. (Previously Presented) The method according to claim 37, wherein the first PID is a secondary PID and wherein the second PID is a primary PID.

41. (Previously Presented) The method according to claim 37, wherein the first PID is a primary PID and wherein the second PID is a secondary PID.

42. (Previously Presented) The method according to claim 35, carried out in one of an integrated circuit and a programmable logic device.

43. (Previously Presented) The method according to claim 35, carried out in one of an application specific integrated circuit and a field programmable gate array.

44. (Original) The method according to claim 35, carried out in a television device.

45. (Original) The method according to claim 35, carried out in a television set-top box.

46. (Currently Amended) A method of decoding a partially encrypted television signal, comprising:

receiving a television signal having a first encrypted audio portion, a second encrypted audio portion and a clear video portion, the first audio portion being identified by a first packet identifier (PID), and the second audio portion being identified by a second PID, the second audio portion being a duplicate of the first audio portion when the first and second audio portions are unencrypted;

discarding the second encrypted audio portion by PID filtering;

decrypting the first encrypted audio portion to produce a decrypted audio portion;
and

decoding the decrypted audio portion and the clear video portion to produce a decoded signal.

47. (Original) The method according to claim 46, wherein the decoded signal is suitable for play on a television set.

48. (Original) The method according to claim 46, wherein the first PID is a secondary PID and wherein the second PID is a primary PID.

49. (Original) The method according to claim 46, wherein the first PID is a primary PID and wherein the second PID is a secondary PID.

50. (Original) The method according to claim 46, carried out in an integrated circuit.

51. (Previously Presented) The method according to claim 46, carried out in one of an application specific integrated circuit and a field programmable gate array.

52. (Original) The method according to claim 46, carried out in a television device.

53. (Original) The method according to claim 46, carried out in a television set-top box.

54. (Currently Amended) A method of multiple encrypting a digital television signal, wherein the television signal includes an elementary data stream and system information (SI), comprising:

duplicating the SI to produce a duplicate SI;
 encrypting the SI under a first encryption system to create a first encrypted SI;
 encrypting the duplicate SI under a second encryption system to create a second encrypted SI;
 forming a partially multiple encrypted digital television signal comprising:
 the elementary data stream in an unencrypted form; and
 the SI encrypted under the first encryption system.

55. (Cancelled)

56. (Previously Presented) The method according to claim 54, wherein the partially multiple encrypted digital television signal further comprises the SI encrypted under the second encryption system.

57. (Previously Presented) The method according to claim 54, further comprising distributing the partially multiple encrypted television signal over one of the following: a cable system, a terrestrial broadcast system and satellite system.

58. (Previously Presented) The method according to claim 57, wherein the first encrypted SI information and the second encrypted SI information are distributed in a different band than that used to distribute the elementary data stream in the unencrypted form.

59. (Previously Presented) The method according to claim 57, further comprising distributing the partially multiple encrypted television signal over one of the following: a cable system, a terrestrial broadcast system and satellite system.

60. (Previously Presented) The method according to claim 59, wherein the first encrypted SI information and the second encrypted SI information are distributed in a different band than that used to distribute the elementary data stream in the unencrypted form.

61. (Original) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a digital television signal according to claim 54.

62. (Currently Amended) ~~An electronic transmission medium carrying an encrypted digital television signal~~ encrypted by the method according to claim 54 and carried by an electronic transmission medium.

63. (Currently Amended) A partially multiple encrypted digital television signal stored or conveyed on a machine readable medium, comprising:

an unencrypted elementary data stream; and
system information (SI) encrypted under a first encryption system to create a first encrypted SI and a duplicate of the SI encrypted under a second encryption method to create a second encrypted SI.

64. (Cancelled)

65. (Currently Amended) The partially multiple encrypted digital television signal apparatus according to claim 63, wherein the unencrypted elementary data stream is modulated to a first frequency band and wherein the first encrypted SI is modulated to a second frequency band.

66. (Currently Amended) The partially multiple encrypted digital television signal apparatus according to claim 63, wherein the unencrypted elementary data stream is modulated to a first frequency band and wherein the second encrypted SI is modulated to a second frequency band.

67. (Currently Amended) A television set-top box, comprising:

a receiver that receives a television signal comprising content and multiple encrypted system information comprising duplicate system information encrypted under at least a first encryption method and a second encryption method;

a decrypter that decrypts the system information encrypted under the first encryption method to create decrypted system information; and

a decoder that decodes the content.

68. (Currently Amended) The television set-top box apparatus according to claim 67, wherein the content is decoded according to the decrypted system information.

69. (Currently Amended) The television set-top box apparatus according to claim 67, wherein the multiple encrypted system information includes channel identifier information for identifying the content.

70. (Currently Amended) The television set-top box apparatus according to claim 67, wherein the multiple encrypted system information is received in an out of band receiver.

71. (Currently Amended) The television set-top box apparatus according to claim 68, wherein the multiple encrypted system information is received in an in-band receiver.

72. (Currently Amended) A method of encrypting a television signal, comprising:

encrypting an elementary stream of the television signal according to a first encryption method to produce a first encrypted elementary stream; and

encrypting a duplicate of the elementary stream according to a second encryption method to produce a second encrypted elementary stream; and

combining the first and second encrypted elementary stream with an unencrypted elementary stream to produce the encrypted television signal, wherein the unencrypted elementary stream is not a duplicate of the first and second elementary stream.

73. (Currently Amended) The method according to claim 72, further comprising distributing an unencrypted video portion of the television signal along with the first and second encrypted elementary streams, wherein, the unencrypted video portion comprises the unencrypted elementary stream.

74. (Original) The method according to claim 72, wherein the television signal is a digital television signal, and wherein the encrypting comprises encrypting packets identified as one of audio elementary stream packets, video elementary stream packets and system information elementary stream packets.

75. (Original) The method according to claim 74, wherein the digital television signal complies with an MPEG standard, and wherein the elementary stream packets are identified for encryption by a packet identifier (PID).

76. (Currently Amended) A method of multiple encrypting a television signal, comprising:
encrypting a selected elementary stream of the television signal according to a first encryption method to produce a first encrypted elementary stream;

encrypting a duplicate of the selected elementary stream of the television signal according to a second encryption method to produce a second encrypted elementary stream; and

combining the first encrypted elementary stream and the second encrypted elementary stream with at least one unencrypted elementary stream of the television signal to produce a partially multiple encrypted television signal.

77. (Previously Presented) The method according to claim 76, wherein the television signal is a digital television signal, and wherein the multiple encrypting comprises multiple encrypting packets identified as the selected elementary stream packets.

78. (Original) The method according to claim 76, wherein the digital television signal complies with an MPEG standard, and wherein the selected elementary stream packets are identified for encryption by a packet identifier (PID).

79. (Previously Presented) The method according to claim 76, further comprising distributing the partially multiple encrypted television signal over one of a cable system, a terrestrial broadcast system and a satellite system.

80. (Previously Presented) The method according to claim 76, wherein the television signal is a digital television signal, and wherein the multiple encrypting comprises multiple encrypting packets identified as one of audio elementary stream packets, video elementary stream packets and system information elementary stream packets.

81. (Original) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a television signal according to claim 76.

82. (Currently Amended) An ~~electronic transmission medium carrying an encrypted television signal encrypted by the method according to claim 76~~ and carried by an electronic transmission medium.

83. (Currently Amended) An multiple selective encrypted electronic video signal stored or conveyed on a machine readable medium, comprising:

- a plurality of elementary streams;
- at least a first of the elementary streams carrying the same content as a first duplicate elementary stream;

a second unencrypted elementary stream;

the first elementary stream being encrypted according to a first encryption method to produce a first encrypted elementary stream; and

the first duplicate elementary stream encrypted according to a second encryption method to produce a second encrypted elementary stream.

84. (Previously Presented) The multiple selective encrypted electronic video signal according to claim 83, wherein the first encryption method comprises a legacy encryption method and wherein the second encryption method comprises a non-legacy encryption method.

85. (Currently Amended) The multiple selective encrypted electronic video signal according to claim 83, wherein the first elementary stream comprises one of the following: a video, an audio and a system information elementary stream.

86. (Currently Amended) A method of encrypting a television signal, comprising:

encrypting a video portion of the television signal according to a first encryption method to produce a first encrypted video portion ~~and according to~~

encrypting a duplicate of the video portion according to a second encryption method to produce a second encrypted video portion; and

combining an unencrypted audio portion of the television signal with the first and second encrypted video portions.

87. (Previously Presented) The method according to claim 86, wherein the television signal is a digital television signal, and wherein the encrypting comprises encrypting packets identified as video packets.

88. (Previously Presented) The method according to claim 87, wherein the digital television signal complies with an MPEG standard, and wherein the video packets are identified for encryption by a packet identifier (PID).

89. (Currently Amended) The method according to claim 87, wherein the digital television signal complies with a digital satellite service (DSS) transport standard, and wherein the video packets are identified for encryption by a service channel identifier ~~(SCID)~~ (SCID).

90. (Previously Presented) The method according to claim 87, wherein video packets encrypted according to the first encryption method are assigned a first packet identifier and video packets encrypted according to the second encryption method are assigned a second packet identifier.

91. (Previously Presented) The method according to claim 90, wherein the first packet identifier and the second packet identifier are referenced as primary elementary packet identifiers (PIDs) in a program map table (PMT).

92. (Previously Presented) The method according to claim 90, wherein the first packet identifier is referenced as a primary elementary packet identifier (PID) in a program map table (PMT) and the second packet identifier is referenced as a secondary elementary packet identifier (PID) in the program map table (PMT).

93. (Previously Presented) The method according to claim 90, wherein the first encrypted audio portion and the second encrypted audio portion are distributed over one of a terrestrial broadcast system, a satellite system and a cable system.

94. (Previously Presented) The method according to claim 93, further comprising distributing system information to provide locating information used to locate the first and second encrypted video portions.

95. (Previously Presented) The method according to claim 94, further comprising combining encrypted system information with the audio portion and the first and second encrypted video portions.

96. (Previously Presented) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a television signal according to claim 86.

97. (Currently Amended) An ~~electronic transmission medium carrying an encrypted television signal~~ encrypted by the method according to claim 86 and carried by an electronic transmission medium.

98. (Currently Amended) A method of multiple encrypting a television signal, comprising:

encrypting a video portion of the television signal according to a first encryption method to produce a first encrypted video portion;

encrypting a duplicate of the video portion of the television signal according to a second encryption method to produce a second encrypted video portion; and

combining the first encrypted video portion and the second encrypted video portion with an unencrypted audio portion of the television signal to produce a multiple partially encrypted television signal.

99. (Previously Presented) The method according to claim 98, wherein the television signal is a digital television signal, and wherein the multiple encrypting comprises encrypting packets identified as video packets.

100. (Previously Presented) The method according to claim 99, wherein the digital television signal complies with an MPEG standard, and wherein the video packets are identified for multiple encryption by a packet identifier (PID).

101. (Previously Presented) The method according to claim 99, further comprising distributing the multiple partially encrypted television signal over one of a cable system, a terrestrial broadcast system and a satellite system.

102. (Previously Presented) The method according to claim 101, further comprising transmitting system information to provide locating information used to locate the first encrypted video portion.

103. (Previously Presented) The method according to claim 102, further comprising encrypting the system information.

104. (Previously Presented) The method according to claim 98, further comprising partially encrypting the unencrypted audio portion of the television signal.

105. (Previously Presented) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a television signal according to claim 98.

106. (Currently Amended) ~~An electronic transmission medium carrying a multiple A~~ multiple encrypted television signal encrypted by the method according to claim 98 and carried by an electronic transmission medium.

107. (Currently Amended) A method of encrypting a digital television signal, wherein the television signal includes an elementary data stream and system information (SI), comprising:

encrypting the SI under a first encryption system;

encrypting a duplicate of the SI under a second encryption system;

forming a multiple partially encrypted digital television signal comprising:

the elementary data stream in an unencrypted form; and

the SI encrypted under the first encryption system, and the duplicate SI encrypted under the second encryption system.

108. (Cancelled)

109. (Currently Amended) The method according to claim 107, further comprising distributing the multiple partially encrypted television signal over one of the following: a cable system, a terrestrial broadcast system and satellite system.

110. (Previously Presented) The method according to claim 107, wherein the encrypted SI information ~~is distributed~~ and the duplicate encrypted SI information are distributed in a different band than that used to distribute the elementary data stream in the unencrypted form.

111. (Previously Presented) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of encrypting a digital television signal according to claim 107.

112. (Currently Amended) ~~An electronic transmission medium carrying an encrypted digital television signal encrypted by the method according to claim 107~~ and carried by an electronic transmission medium.